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GenCore version 4.5

OM protein - protein search, using sw model

Run on: March 1, 2001, 15:19:26 ; Search time 140.11 seconds

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Minimum DB seq length: 0 (without alignments)

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% ; Maximum Match 100%

Listing first 45 summaries

Issued_Patents_AA:*

1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*

2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*

3: /cgn2_6/ptodata/2/iaa/5C_COMB.pep:*

4: /cgn2_6/ptodata/2/iaa/5CTUS_COMB.pep:*

5: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query | Length | DB ID | Description |
|------------|-------|-------|--------|---------------------|--------------------|
| 1 | 1145 | 32.4 | 566 | 1 US-07-955-905A-2 | Sequence 1, Appl |
| 2 | 1145 | 32.4 | 566 | 1 US-07-955-905A-2 | Sequence 2, Appl |
| 3 | 1069 | 30.3 | 587 | 1 US-07-955-905A-23 | Sequence 3, Appl |
| 4 | 853.5 | 24.2 | 605 | 1 US-07-955-905A-24 | Sequence 4, Appl |
| 5 | 832.5 | 23.6 | 571 | 1 US-07-955-905A-25 | Sequence 5, Appl |
| 6 | 704.5 | 19.9 | 410 | 1 US-07-955-905A-26 | Sequence 6, Appl |
| 7 | 557 | 15.8 | 421 | 1 US-07-955-905A-27 | Sequence 7, Appl |
| 8 | 226 | 6.4 | 1898 | 1 US-08-056-200-94 | Sequence 8, Appl |
| 9 | 226 | 6.4 | 1898 | 1 US-08-800-644-94 | Sequence 9, Appl |
| 10 | 218.5 | 6.2 | 1162 | 2 US-08-728-323A-2 | Sequence 10, Appl |
| 11 | 146 | 4.1 | 303 | 1 US-08-109-394A-2 | Sequence 11, Appl |
| 12 | 146 | 4.1 | 303 | 1 US-08-419-019A-2 | Sequence 12, Appl |
| 13 | 146 | 4.1 | 303 | 2 US-08-460-428A-2 | Sequence 13, Appl |
| 14 | 146 | 4.1 | 303 | 3 US-08-418-860A-2 | Sequence 14, Appl |
| 15 | 140.5 | 4.0 | 683 | 5 5210183-3 | Patent No. 5210183 |
| 16 | 139.5 | 3.9 | 788 | 2 US-08-918-914-4 | Sequence 16, Appl |
| 17 | 137.5 | 3.9 | 558 | 1 US-08-205-440-6 | Sequence 17, Appl |
| 18 | 137.5 | 3.9 | 558 | 1 US-08-630-349-6 | Sequence 18, Appl |
| 19 | 136 | 3.9 | 186 | 2 US-08-557-309B-43 | Sequence 19, Appl |
| 20 | 136 | 3.9 | 186 | 3 US-08-834-300-43 | Sequence 20, Appl |
| 21 | 135.5 | 3.8 | 1805 | 1 US-07-833-913-2 | Sequence 21, Appl |
| 22 | 134.5 | 3.8 | 614 | 4 PCT-US93-03236-21 | Sequence 22, Appl |
| 23 | 133.5 | 3.8 | 2101 | 1 US-08-466-390-4 | Sequence 23, Appl |
| 24 | 133.5 | 3.8 | 2101 | 1 US-08-620-950-4 | Sequence 24, Appl |
| 25 | 133.5 | 3.8 | 2101 | 1 US-08-467-781-4 | Sequence 25, Appl |
| 26 | 133.5 | 3.8 | 2101 | 1 US-08-195-487-4 | Sequence 26, Appl |
| 27 | 133.5 | 3.8 | 2101 | 2 US-08-483-924-4 | Sequence 27, Appl |
| 28 | 133.5 | 3.8 | 2101 | 4 PCT-US93-06360-4 | Sequence 28, Appl |

ALIGNMENTS

RESULT 1

US-07-955-905A-2

; Sequence 2, Application US/07955905A

Patent No. 5770433

GENERAL INFORMATION:

APPLICANT: RECOMBINANT 47 AND 31 kd COCOA PROTEINS AND

TITLE OF INVENTION: PRECURSOR

NUMBER OF SEQUENCES: 28

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US-07-955-905A

FILING DATE: 21-JAN-1993

CLASSIFICATION: 435

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 566 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-07-955-905A-2

Query Match 32.4%; Score 1145; DB 1; Length 566; Best Local Similarity 41.1%; Pred. No. 1.6e 97; Matches 237; Conservative 107; Mismatches 175; Indels 58; Gaps 13;

QY 109 ICEEEEEEYR--QRQQQQYEQCQCRCRQHETPRHMQTCQRCRERYEKEKKQQKRY 165

Db 22 LCGSVASAYRKQYERPRQQYEQCQCRCSEATEBREQECDQERF-----EY 70

QY 166 EQQQREDEEKYVERMKEDNRDPDQOREYEDRRRCQQE--PRQQYQCRCRCRQQRQH 223

Db 71 KEQQRCQEEEL-----QRQYQCRCQEQQQGOREQQQCORKCWEQYKEQ 116

QY 224 GRGGDINPQGGSGYEEGEKQSDNPYFDE-NSLSRFRTERGHISYLENFYGRSKL 282

Db 117 ER-GEHENYHNHKRNRSSEEGQNRNPPYFPKRSQFTRDEEGNFKLQRAENSP 175

QY 283 LRALKIVRLVLEANPNAVFLPHDADAILVLVGRGALKMIRHDNRESYNLEGDVR 342

Db 176 LKGIDNYRLANFEAMENTFLPHDADAILVLVGRGALKMIRHDNRESYNLEGDVR 235

QY 343 IPAGITMFYLLNRDNNRERLHTAKFLQTSTPQYKERRQPAGQNPQRPYLSFSPKELAAL 402

Db 236 VPAGSTVYVVSQDNQEKLTIAVLALPWNSPGKYLEFPAGNPKPSYGYAFSYELETVF 295

Query 403 NYQAERIURGQQR-----EGVIISASBOIREITRDSESSRRWHIRGGESSKG 454
 Result 2
 US-07-955-905A-22
 Sequence 22 Application US/07955905A
 Patent No. 5770433

GENERAL INFORMATION:

APPLICANT:
 TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
 TITLE OF PRECURSOR: PRECURSOR
 NUMBER OF SEQUENCES: 28

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/955, 905A
 FILING DATE: 21-JAN-1993
 CLASSIFICATION: 435

INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:

LENGTH: 566 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..566
 OTHER INFORMATION: /note= "67 kd Precursor Protein"
 US-07-955-905A-22

Query Match 32.4%; Score 1145; DB 1; Length 566;
 Best Local Similarity 41.1%; Pred. No. 1.8e-97; Mismatches 175; Indels 58; Gaps 13;

Matches 237; Conservative 107; Mismatches 175; Indels 58; Gaps 13;

Query 109 ICEEEEEVNR--ORDPOQYECQERQHETPRIMOTQCORCERKEEKRQQRY 165
 Result 3
 US-07-955-905A-23
 Sequence 23 Application US/07955905A
 Patent No. 5770433

GENERAL INFORMATION:

APPLICANT:
 TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
 TITLE OF PRECURSOR: PRECURSOR
 NUMBER OF SEQUENCES: 28

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/955, 905A
 FILING DATE: 21-JAN-1993
 CLASSIFICATION: 435

INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:

LENGTH: 587 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..587
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-23

Query Match 30.3%; Score 1069; DB 1; Length 587;
 Best Local Similarity 38.1%; Pred. No. 1.8e-90; Mismatches 182; Indels 74; Gaps 14;

Matches 228; Conservative 115; Mismatches 182; Indels 74; Gaps 14;

Query 166 EEQREDEEKYERMKEDDKNRPQREYEDCRRRCQEQ - PROQYQCORQRCRQQRQ 223
 Result 4
 US-07-955-905A-24
 Sequence 24 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 224 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..224
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-24

Query Match 30.3%; Score 1069; DB 1; Length 587;
 Best Local Similarity 38.1%; Pred. No. 1.8e-90; Mismatches 182; Indels 74; Gaps 14;

Matches 228; Conservative 115; Mismatches 182; Indels 74; Gaps 14;

Query 76 DDPQTDCQCORRCQQESEPROQYCORCK-ETCEEEBEYNRQDPOQYECQRCQ 134
 Result 5
 US-07-955-905A-25
 Sequence 25 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 135 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..135
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-25

Query 195 EDCRRCEQEE - PRQYQCORRCRQQRQHGRGGDLINPQ - - - - GSGRVEE 246
 Result 6
 US-07-955-905A-26
 Sequence 26 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 195 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..195
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-26

Query 343 IPACTTYFLINRDNNERLAKFLQIISPGQKEFPGAGONRPEPVLSTPSKELAAL 402
 Result 7
 US-07-955-905A-27
 Sequence 27 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 343 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..343
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-27

Query 455 YLNFKRPLYSNKYQAYEVKPEDYRQLQDMDSVFLANITQGSMMPFENRSTKVVV 514
 Result 8
 US-07-955-905A-28
 Sequence 28 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 514 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..514
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-28

Query 403 NYQAERIURGQQR-----EGVIISASBOIREITRDSESSRRWHIRGGESSKG 454
 Result 9
 US-07-955-905A-29
 Sequence 29 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 403 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..403
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-29

Query 515 ASGEADYEMACPHLSGRHGRGK - RHEEEEDV - - - - HYEQVKARLSKREATIVPV 566
 Result 10
 US-07-955-905A-30
 Sequence 30 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 566 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..566
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-30

Query 410 TDGYQYAOACPHLSRSQGSQSGRDRREBEESEETFGFQVQVAKLSPGDVFVAPA 469
 Result 11
 US-07-955-905A-31
 Sequence 31 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 469 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..469
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-31

Query 350 INLUSQSPVSYNSQNGRFFBACPDSEPSQFONMDVAUSAFKUNQAIIFVPHNSKATFVVF 409
 Result 12
 US-07-955-905A-32
 Sequence 32 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 409 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..409
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-32

Query 409 INLUSQSPVSYNSQNGRFFBACPDSEPSQFONMDVAUSAFKUNQAIIFVPHNSKATFVVF 409
 Result 13
 US-07-955-905A-33
 Sequence 33 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 409 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..409
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-33

Query 426 INLUSQSPVSYNSQNGRFFBACPDSEPSQFONMDVAUSAFKUNQAIIFVPHNSKATFVVF 409
 Result 14
 US-07-955-905A-34
 Sequence 34 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 409 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..409
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-34

Query 427 LENSQDESIFFPQCPHQSSRSTKQOQPLVSILDF 663
 Result 15
 US-07-955-905A-35
 Sequence 35 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 663 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..663
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-35

Query 529 IFNNPDESYFMSFSQQR--RDERRGNPLASLDF 562
 Result 16
 US-07-955-905A-36
 Sequence 36 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 562 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..562
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-36

Query 470 GHAVIFFFASKDQPLNAVAFGLNAQNINORIFLAGK - KNLVRQMDSEAKELSFGVPSKLVN 528
 Result 17
 US-07-955-905A-37
 Sequence 37 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 528 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..528
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-37

Query 529 IFNNPDESYFMSFSQQR--RDERRGNPLASLDF 562
 Result 18
 US-07-955-905A-38
 Sequence 38 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 562 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..562
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-38

Query 515 ASGEADYEMACPHLSGRHGRGK - RHEEEEDV - - - - HYEQVKARLSKREATIVPV 566
 Result 19
 US-07-955-905A-39
 Sequence 39 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 566 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..566
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-39

Query 410 TDGYQYAOACPHLSRSQGSQSGRDRREBEESEETFGFQVQVAKLSPGDVFVAPA 469
 Result 20
 US-07-955-905A-40
 Sequence 40 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 469 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..469
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-40

Query 350 INLUSQSPVSYNSQNGRFFBACPDSEPSQFONMDVAUSAFKUNQAIIFVPHNSKATFVVF 409
 Result 21
 US-07-955-905A-41
 Sequence 41 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 409 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..409
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-41

Query 403 NYQAERIURGQQR-----EGVIISASBOIREITRDSESSRRWHIRGGESSKG 454
 Result 22
 US-07-955-905A-42
 Sequence 42 Application US/07955905A
 Patent No. 5770433

SEQUENCE CHARACTERISTICS:

LENGTH: 454 amino acids

TYPE: amino acid

FEATURE:

NAME/KEY: Protein
 LOCATION: 1..454
 OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
 US-07-955-905A-42

Db 124 QECOOCHQHQEOPERKQOCVACCRERYQE-----NPWREREEAEETEGEQE 175
 Qy 247 QSDNPYDERSISTRFRTEEGHSIVLENFYGRSKLRLAKWVRLVILEANPNAVLPTH 306
 Db 176 QSHNPFHRRSRQSFRREEHGNFRVLFQFASRHPILRGINEFRLSILEANTEVLP,PH 235
 Qy 307 LQDAAILVLTGGRGALKMTHRNRESNLCECDVIRFAGTFYLNRDNRVERLHAKFL 366
 Db 236 CDAEKIVLVTNGRGTLFPLTHENKESNVPGVWVVPAGSTVYLANQDNKEKLITAVLH 295
 Qy 367 QTISTPGOKEPPAGCONPEYLSTSKEIJAALNTQAEELRGVLG-----QOREG 419
 Db 296 RPVNPNPROFEEFPAGSOPSYLRAFSRELEPAFNTRSEQDLELFGGRQSHRQOGQ 355
 Qy 420 VLTASAOQIRELRTDDESSRRMHIRRGEESRGPYNLFNKRPLYSNKYQAYEVKPEDY 479
 Db 356 MFRKASOQIRALSQEATSPR---ERSGE - RFAFNLYRIPRYSQNQGRPEACPREF 409
 Qy 480 RQLQDMDSVFTANTQGSMMPFENFRSTKVVVVASGEADVEMACPHLSGRHGRGGK 539
 Db 410 RQLSDINVTVSALQLNQGSIFVPHNRKATFVFLVNEGNGVEMVSPHLPROSSEEE 469
 Qy 540 RHFEEEDV-----HYCOKAULSKRKAIVWVGHFVVFVSSGENNLLFARG-----IN 588
 Db 470 QQQEQEEERRSSGQYRKIRSLSRGDIFVVFVANFPTEVASONQNLRMFGFLGLYMONIN 529
 Qy 589 AQQNHENFLAGRBNVQIPEQFQAMELAFAAPRKVEELFNSQDESIFFPGPRHQQS 647
 Db 530 PDHNQRIFVAGKINHV-RQWDQSQAKELAFGVSSRLVDETFNNNPQESYFVS-RQRORAS 586

RESULT 4
 US-07-955-905A-24
 ; Sequence 24, Application US/07955905A
 ; Patent No. 5770433
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT:
 ; TITLE OF INVENTION: RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND
 ; NUMBER OF SEQUENCES: 28
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/955, 905A
 ; FILING DATE: 21-JAN-1993
 ; CLASSIFICATION: 435
 ; INFORMATION FOR SEQ ID NO: 24:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 605 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; NAME/KEY: Protein
 ; LOCATION: 1..605
 ; OTHER INFORMATION: /note= "Convicilin from G. max"
 ; US-07-955-905A-24

Query Match 24..28; Score 853..5; DB 1; length 605;
 Best Local Similarity 31..4%; P-Pred. No. 1..6e-70;
 Matches 194; Conservative 143; Mismatches 211; Indels 69; Gaps 15;

Qy 72 YDNQDDPQTDCQCCRRCRQQESGPROQYQCORRC-----KEIQQEE--EYNRQDPE 122
 Db 27 YWEKENPKHN--KCPLQCSNRSRDSYRNQAA-CHARCNULYKEEGEEGEELPRPRPQPH 83

Qy 123 QOQYEQCQERCORHETEPRHMOTCQRCRERYKEKRRQOKRYYEQQOREDEEKEYBERMK 182

Db 84 EREPQQGEGEKEEDEDEQPRPPIPFPREPROBEHEQREOOPWPRKEEKGSEBEDED 143
 Qy 183 EINKRDQDQREYEDCRRCDEQPRQYQCCRRCRQQORQHGGDLINPQRGSGRCYEE 242
 Db 144 EDEBQDERQPRP--RPPHQKEEREEDED--EQQRES-----EE 181
 Qy 243 GEEBKQ----SDNPYDERSISTRFRTEEGHSIVLENFYGRSKLRLAKWVRLVILEAN 297
 Db 182 SDDSELRRHKNNPPELFFSNRTELPKNOYGRVIRQFNGRSRQPLQNLRYRILEFSK 241
 Qy 298 PNAFVLTTHDADILVLTGGRGALKMTHRNRESNLCECDVIRFAGTFYLNRDNN 357
 Db 242 PNTLLPNHADADYLIVLNGTAILSVNNDDDRSFLQSGDALRVFPGSTGTYVNPDDN 301
 Qy 358 ERHIAKFLQIYSTPOKEPPAGCONPEYLSTSKEIJAALNTQAEELRGVL----- 413
 Db 302 EMURLTLPATINPKGTFESTFLSSTAQQYLOGSNTLNEASYTKFEEINKVLFSE 361
 Qy 414 ----GQOR- EGVLTASAOQIRELRTDDESSRRMHIRRGEESRGPYNLFNKRPLYS 466
 Db 362 EGQQQGQQRQJQSVIWEISKQIRALSKRAASSRKP1---SSEDKPFNURSRDPIYN 417
 Qy 467 KYQAYEVKPEDYRQLQDMDSVFTANITQGSMMPFENTHSTKVVVVASGEADVEMACP 526
 Db 418 KLGKFFETIPKRNQPLDLDIFLSIVDMNNEGALLPHFNSKRAIVLIVINEGDANIELV-- 475
 Qy 527 HISGRHGG--RIGKKhHEEEEDVHYEQVKARISKRAIVWVGHFVVFVSSGENNLLFA 584
 Db 476 -----GLKEQQEQQOQEPLEVRVYRAESEQDFIVTAYGVW--NATSNIEFA 526
 Qy 585 FGINAQNHENFLAGRBNVQIPEQFQAMELAFAAPRKVEELFNSQDESIFFPGPRHQ 644
 Db 527 IGINAENQNRNPLAGSDQDNVTSQPSQVQELAFPGSAQAVEKLNQRESTFVDAQPKK 586
 Qy 645 QOSRSRSTKQQPLVSL 661
 Db 587 EBGNKGRK--GPLSSIL 601

RESULT 5
 US-07-955-905A-25
 ; Sequence 25, Application US/07955905A
 ; Patent No. 5770433
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT:
 ; TITLE OF INVENTION: RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND
 ; NUMBER OF SEQUENCES: 28
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/955, 905A
 ; FILING DATE: 21-JAN-1993
 ; CLASSIFICATION: 435
 ; INFORMATION FOR SEQ ID NO: 25:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 571 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; ORGANISM: *Platostoma sativum*
 ; FEATURE:
 ; NAME/KEY: Protein
 ; LOCATION: 1..571
 ; OTHER INFORMATION: /note= "Convicilin from *P. sativum*"
 ; US-07-955-905A-25

Query Match 15.8%; Score 557; DB 1; Length 421;
 Best Local Similarity 33.1%; Pred. No. 2.5e-43;
 Matches 141; Conservative 74; Mismatches 155; Indels 56; Gaps 12;

Y 244 EERQSDNPYF-ERSLSTRFRTEEGHTSVLENFGRSKILRALKNYRIVLLEANPNAFV 302
 Y 303 LPIHLDADAILLYVGGRGALKMHRDNESY--NIEGDVIRIPAGTFYLINRON 356
 Y 304 EEPQSDNPYF-NSNSWNLTFLKNQYGHIRVLRQFDQSQSKRLQNLEDYRVERSPETL 89
 b 305 LPIQDADAEILLYVVRSGSALLWVLPDPRDREYEFELTSNDPFLPSDHQKIPAGTFYLINRDP 149
 b 357 NERLHIAFKFLQT-ISTPGQYKEFPAGGQNPEPYLSTFSKEILEALNTQAEERLKGVLQG- 415
 b 150 KEDRITQIOLAMPWNPNP-QIHEFFLSSTERQQSVLQEFSKHILEASFNSFEEINRLFEE 208
 Y 416 -OREGVITASASOBORELTRDDESSRRHRRGESESSRGPYNLFNKPOLYSNYQOAYE 473
 Y 209 EGQEQGVIVNIDSBOEKLSKHAKSSR-----KSLSKQDNITIGNEFGNLTE 255
 b 301 -GPKGKNC---ETLEYEYSAELESKDDVFWPAAPVAKATSNVNFT-GFGINANN 351
 Y 474 VPKPEDYRQLQDMDSVFTAN--TQGSMGPPFNTRSKVVVVASGEADVEMACPHLSGR 531
 Y 256 ------RTDMSNLVNLISSEMEGAFLFVPHYSKAIVLVLVNEGEANVELV----- 300
 Y 532 HSGRRGGKRHEEFDVHVEQVAKLRSKREAVIVPVGHVVFVSSGENENLLFAGINQON 591
 Y 352 NRNLNLAGKTRDINVISIGRALDKDVLGLTFSGSGDEVMKLINKQSGS-YFVDAHHHQE 410
 Y 647 SSRSRK 652
 Y 411 QDKGRK 416

RESULT 8
 US-08-056-200-94
 Sequence 94, Application US/08056200
 Patent No. 5615500

GENERAL INFORMATION:
 APPLICANT: Steinert, Peter M.
 APPLICANT: Lee, Seung-Chul
 APPLICANT: Kim, In-Gyu
 APPLICANT: Chung, Soo-il
 APPLICANT: Park, Sang-Chul
 TITLE OF INVENTION: Trichoyalin and Transglutaminase-3 and
 NUMBER OF SEQUENCES: 117
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Knobbe, Martens, Olson & Bear
 STREET: 620 Newport Center Drive, Sixteenth Floor
 CITY: Newport Beach
 STATE: CA
 COUNTRY: U.S.A.
 ZIP: 92660

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08-056, 200
 FILING DATE: 30-APR-1993
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Fredrick, Michael F.
 REGISTRATION NUMBER: 36799
 REFERENCE/DOCKET NUMBER: NIH054.001A
 TELECOMMUNICATION INFORMATION:

RESULT 9
 US-08-080-644-94
 Sequence 94, Application US/08800644
 ; Parent No. 5958752
 ; GENERAL INFORMATION:
 ; APPLICANT: Steinert, Peter M.
 ; APPLICANT: Lee, Seung-Chul
 ; APPLICANT: Kim, In-Gyu
 ; APPLICANT: Chung, Soo-il

Query Match 6.4%; Score 226; DB 1; Length 1898;
 Best Local Similarity 19.0%; Pred. No. 1.1e-11; Mismatches 217; Indels 212; Gaps 128; Conservative 115; Mismatches 217; Indels 212; Gaps 128;

Y 475 EGQEQGVIVNIDSBOEKLSKHAKSSR-----KSLSKQDNITIGNEFGNLTE 255
 Db 441 EQQLRQEE-----RHEQKHEOERREORLKRQEQEERDMLKRE-----ERHEQER 490
 Qy 88 ERQO-----QTSGPQOYCRCKCEEEBYNRDR-DPOQYECQ 130
 Qy 180 MKEEDNRDPQOYEREDCRRCEQQERQYQCCRQEQQRORHGRGQDLDINPORGSGR 239
 Db 609 LKREQERERLQKRREVERL--EQERDRDESLKREPEEERRH---ELLKSEEEQERR 662
 Qy 240 YEEGEEEFSDNPYFDERSLSTRFRTEEGHTSVLENFGRSKILRALKNYRIVLNNP 299
 Db 663 HEQLRREQQE-----RREQ-----RLKREPEEERL----- 687

Qy 300 AFVLPLHDADAILLYVGGRGALKMHRDNESY-NIEGDVIRIPAGTFYLINRDN 359
 Db 688 -----EORLKRHEEERREQELAEE-----OEQRER 715
 Qy 360 L-HIAFKFLQT-ISTPGQYKEFPAGGQNPEPYLSTFSKEILEALNTQAEERLKGVLQG- 417
 Db 716 IKSRTKQWOLESEADARQ-----SKVLLERAPQGRAAEQEKEKRR 759

Qy 418 EGVITASASOBORELTRDDESSR--WHIRKGESSRGPYNLFNKPOLYSNYQO--AY 472
 Db 760 RESELQWQEEERAHRQOEEFQRDFTWQWOREKSERGRQRLSPAPLREORERQRLR 819

Qy 473 EVKPEDYRQLQDMDSVFTAN--TQGSMGPPFNTRSKVVVVASGEADVEMACPHLSGR 532
 Db 820 ERQQRQRFPLP-----EEKE----- 836

Qy 533 GGRRGGKRHEEFDVHVEQVAKLRSKREAVIVPVGHVVFVSSGENENLLFAGINQON 592
 Db 837 -OQRQRERERKELEEEFQRLRER-----QQLQEEEDGLOSDQE 879

Qy 593 HENFLAGRERVLQOLQEQPQ--AMELAFAAP-----RKEEELFNSQDESFFPGCRH 643
 Db 880 RRRQEQRDQKWRWOLEEERKRRHTLYKPAQLEQRLRKE-QOLLOREEEEL----QR 932

Qy 644 QQQSSASTKQQQ 655
 Db 933 EEREKRRQEQE 944

TITLE OF INVENTION: Methods of Using Same
 NUMBER OF SEQUENCES: 117
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Knobbe, Martens, Olson & Bear
 STREET: 620 Newport Center Drive, Sixteenth Floor
 CITY: Newport Beach
 STATE: CA
 COUNTRY: U.S.A.
 ZIP: 92660
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/800,644
 FILING DATE: 14-FEB-1997
 CLASSIFICATION: 424
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/056,200
 FILING DATE: 30-APR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Fedrick, Michael F.
 REGISTRATION NUMBER: 35,799
 REFERENCE/DOCKET NUMBER: NIH054.001A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (714) 760-0404
 TELEFAX: (714) 760-9502
 INFORMATION FOR SEQ ID NO: 94:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1898 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 08-800-644-94

Query Match 6.4%; Score 226; DB 2; Length 1898;
 very Local Similarity 19.0%; Pred. No. 1.1e-11; Gaps 24;
 matches 128; Conservative 115; Mismatches 217; Indels 212; Gaps 24;

28 ESEEFDRQEYEECKRCQMOLEISGQMRCSQCDKRFEEIDNNSKVYDQDDPDTDCQOCR 87
 441 EQQQRREQEEB-----RHSCKHEQRERQRKREQRRLKREE-----ETERHEDR 490

88 RCRQ-----QESGPQQYCORRCKICEEEPEYNRQ-DPQQYFQCO 130
 491 RKQQLRKDQEERRERWKLKEEEERRRQQ-EERREQQRRREERRRERQRLKKQEEERLQ 548

131 ERCQ-----RHETEPHMOTCQQRCCRVEEKKQDKQKRYEQQED-----EEKEER 179
 549 QRLRSEQQRLRQEERERQLEQKLKREERLQRLRQEERRDQLKREERRQQR 608

180 MKEENKRDQFQREEDCRRCEQQDPROQOCRRQEQRRQHGRGQDLMNQRGSSGR 239
 609 LKRQREERLQRLKREVERL-EQERRDRERLKRREEPEEERRH---ELLKSEQERR 662

240 YEEGEEKQDSNPYFEDERSLSSTRFEEGHISVLENFYGRSKLLRALKNYRLVLEANPN 299
 663 HEQLRREQE-----RREQ-----RLKREEEERL----- 687

300 AFVLPTHLADAILLWVGGALKMHRDNESTYNECLGDMVIRPAGTFYLNRDNNR 359
 688 -----BQLKREEEERQLEAEE-----OEARER 715

360 L-HIAKFLQITSPQYKSEPPAGGONPEDIYLSFSKETLAEALNTQAEARLQVIGQQR 417
 716 IKSRIKPQWQWOLESEADARQ-----SKVLEAPQAGRAEARQEQEKKR 759

418 EGVISASQQRQLTRDDSESR-----WHIRRGESSRGSPNLFNRKPLYSKYGQ-AY 472

RESULT 10
 US-08-728-323A-2
 ; Sequence 2, Application US/08728323A
 ; Patent No. 5948676
 ; GENERAL INFORMATION:
 ; APPLICANT: Chang, Yuan
 ; APPLICANT: Botenzyk, Roy A.
 ; APPLICANT: Russo, James J.
 ; APPLICANT: Edelman, Isidore S.
 ; APPLICANT: Moore, Patrick S.
 ; TITLE OF INVENTION: Immediate Early Protein From Kaposi's
 ; TITLE OF INVENTION: Sarcoma-associated Herpesvirus, DNA
 ; NUMBER OF SEQUENCES: 21
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Cooper & Dunham LLP
 ; STREET: 1185 Avenue of the Americas
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: U.S.A.
 ; ZIP: 10036

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/728,323A
 FILING DATE:
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
 NAME: White, John P.
 REGISTRATION NUMBER: 28,678
 REFERENCE/DOCKET NUMBER: 05/5/52268/JPW/MSC/SKS

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-278-0400
 TELEFAX: 212-391-0525

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1162 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

; US-08-728-323A-2

Query Match 6.2%; Score 218.5; DB 2; Length 1162;
 Best Local Similarity 26.0%; Pred. No. 2.5e-11;
 Matches 61; Conservative 64; Mismatches 91; Indels 19; Gaps 5;

QY 34 QYEERCKRCQMOLEISGQMRCSQCDKRFEEIDNNSKVYDQDDPDTDCQOCRQOE 93
 Db 580 QQREFQFQREFQQDQE-----QODEQ QDEQQDQEQQDQEQQDQE 635

APPLICANT: Frank, Glenn R.
 APPLICANT: Grieve, Robert B.
 TITLE OF INVENTION: NOVEL PARASITIC HELMINTH
 NUMBER OF SEQUENCES: 17
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sheridan Ross P.C.
 STREET: 1700 Lincoln St., Suite 3500
 CITY: Denver
 STATE: CO
 COUNTRY: U.S.A.
 ZIP: 80203

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US08/460,428A
 FILING DATE: 02-JUN-1995
 CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:
 NAME: Connell, Gary J.
 REGISTRATION NUMBER: 32,020

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 303/863-9700
 TELEFAX: 303/863-0223

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 303 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

REFERENCE/DOCKET NUMBER: 2418-13-3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 303/863-9700
 TELEFAX: 303/863-0223

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 303 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-460-428A-2

Query Match 4.1%; Score 146; DB 2; Length 303;
 Best Local Similarity 24.6%; Pred. No. 1.6e-05; Matches 52; Conservative 46; Mismatches 87; Indels 26; Gaps 10;

Qy 32 DRQEYEECKRQ--CMAOLETS--GOMRRC--VSQCDKRREE---DIDWISKVNDQDP 78
 Db 97 DDEDLDECSDOEFRCPLAKTLCVHVLKICDGIDPGGSDEMNCADDEVITSINGNEI 156

Qy 79 QTDCCOCORRQQESGP--RQQYQCORR--CKECEEE-EYNRQDPOQYECQERC 133
 Db 214 IRDDEIPNVTYSMEQDYDQVKEDKERMEEEEEQERLREYEQIQEKLROEEEREQE 273

Qy 134 ORHETEPRHMOTCQRCER-RYEKRRKQRYEERQEDBEKYERMKEDDNKDPQQR 192
 Db 214 IRDDEIPNVTYSMEQDYDQVKEDKERMEEEEEQERLREYEQIQEKLROEEEREQE 273

Qy 193 EYEDCRRCEQEPHQYQCORRCRQQRQH 223
 Db 274 RROKERERMEQERIQQED---EKERQRY 300

RESULT 15
 5210183-3

Query Match 4.0%; Score 140.5; DB 5; Length 683;
 Best Local Similarity 18.7%; Pred. No. 0.00018; Matches 132; Conservative 128; Mismatches 236; Indels 209; Gaps 31;

Qy 79 QTDCCOCORRQQESG--RQQYQCORRKEICEEEEEE---NRQRDPQ----- 123

RESULT 14
 US-08-458-860A-2
 ; Sequence 2, Application US/08458860A
 ; Patent No. 6500390

GENERAL INFORMATION:
 APPLICANT: Frank, Glenn R.
 APPLICANT: Tripp, Cynthia A.
 APPLICANT: Grieve, Robert B.

TITLE OF INVENTION: NOVEL PARASITIC HELMINTH
 TITLE OF INVENTION: NOVEL PARASITIC HELMINTH
 NUMBER OF SEQUENCES: 17
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sheridan Ross P.C.
 STREET: 1700 Lincoln St., Suite 3500
 CITY: Denver

Search completed: March 1, 2001, 15:49:33
Job time: 378 sec

